



6CU8

MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

With heater having controlled warm-up time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3	volts
Current	0.45 ± 6%	amp
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances:⁰

Triode Unit:

Grid to plate	1.6	μf
Grid to cathode & pentode grid No.3 & internal shield, and heater . . .	1.9	μf
Plate to cathode & pentode grid No.3 & internal shield, and heater . . .	1.6	μf

Pentode Unit:

Grid No.1 to plate	0.025 max.	μf
Grid No.1 cathode, grid No.3 & triode cathode & internal shield, grid No.2, and heater	7	μf
Plate to cathode, grid No.3 & triode cathode & internal shield, grid No.2, and heater	2.4	μf
Pentode grid No.1 to triode plate . . .	0.03 max.	μf
Pentode plate to triode plate	0.07 max.	μf

Characteristics, Class A₁ Amplifier:

	<i>Triode Unit</i>	<i>Pentode Unit</i>	
Plate Supply Voltage	125	125	volts
Grid-No.2 Supply Voltage	—	125	volts
Grid-No.1 Voltage	-1	0	volts
Cathode Resistor	0	56	ohms
Amplification Factor	24	—	
Plate Resistance (Approx.)	4100	170000	ohms
Transconductance	5800	7800	μmhos
Plate Current	17	12	ma
Grid-No.2 Current	—	3.8	ma
Grid-No.1 Voltage (Approx.) for plate μa = 20	-12	-6	volts
Grid-No.1 Voltage (Approx.) for plate ma. = 1.6, and cathode resistor (ohms) = 0	—	-3	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"

← Indicates a change.

6CU8

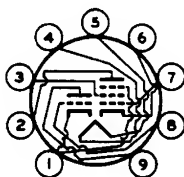


6CU8

MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

Length, Base Seat to Bulb Top (Excluding tip). . . 1-9/16" \pm 3/32"
 Diameter. 0.750" to 0.875"
 Dimensional Outline See General Section
 Bulb. T6-1/2
 Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9GM

Pin 1—Triode
Cathode,
Pentode
Grid No.3,
Internal
Shield
Pin 2—Pentode
Plate
Pin 3—Pentode
Grid No.2



Pin 4—Heater
Pin 5—Heater
Pin 6—Pentode
Cathode
Pin 7—Pentode
Grid No.1
Pin 8—Triode
Grid
Pin 9—Triode
Plate

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

	Triode Unit	Pentode Unit	
PLATE VOLTAGE	330 max.	330 max.	volts
GRID-No.2 (SCREEN-GRID)			
SUPPLY VOLTAGE.	-	330 max.	volts
GRID-No.2 VOLTAGE	-	See Grid-No.2 Input	
Rating Chart at front of Receiving Tube Section			
GRID-No.1 (CONTROL-GRID)			
VOLTAGE:			
Positive-bias value	0 max.	0 max.	volts
GRID-No.2 INPUT:			
For grid-No.2 voltages			
up to 165 volts	-	0.55 max.	watt
For grid-No.2 voltages			
between 165 and 330 volts	-	See Grid-No.2 Input	
Rating Chart at front of Receiving Tube Section			
PLATE DISSIPATION	2.8 max.	2.3 max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with			
respect to cathode.	200 max.	200 max.	volts
Heater positive with			
respect to cathode.	200 [▲] max.	200 [▲] max.	volts

⁰ Without external shield.

[▲] The dc component must not exceed 100 volts.

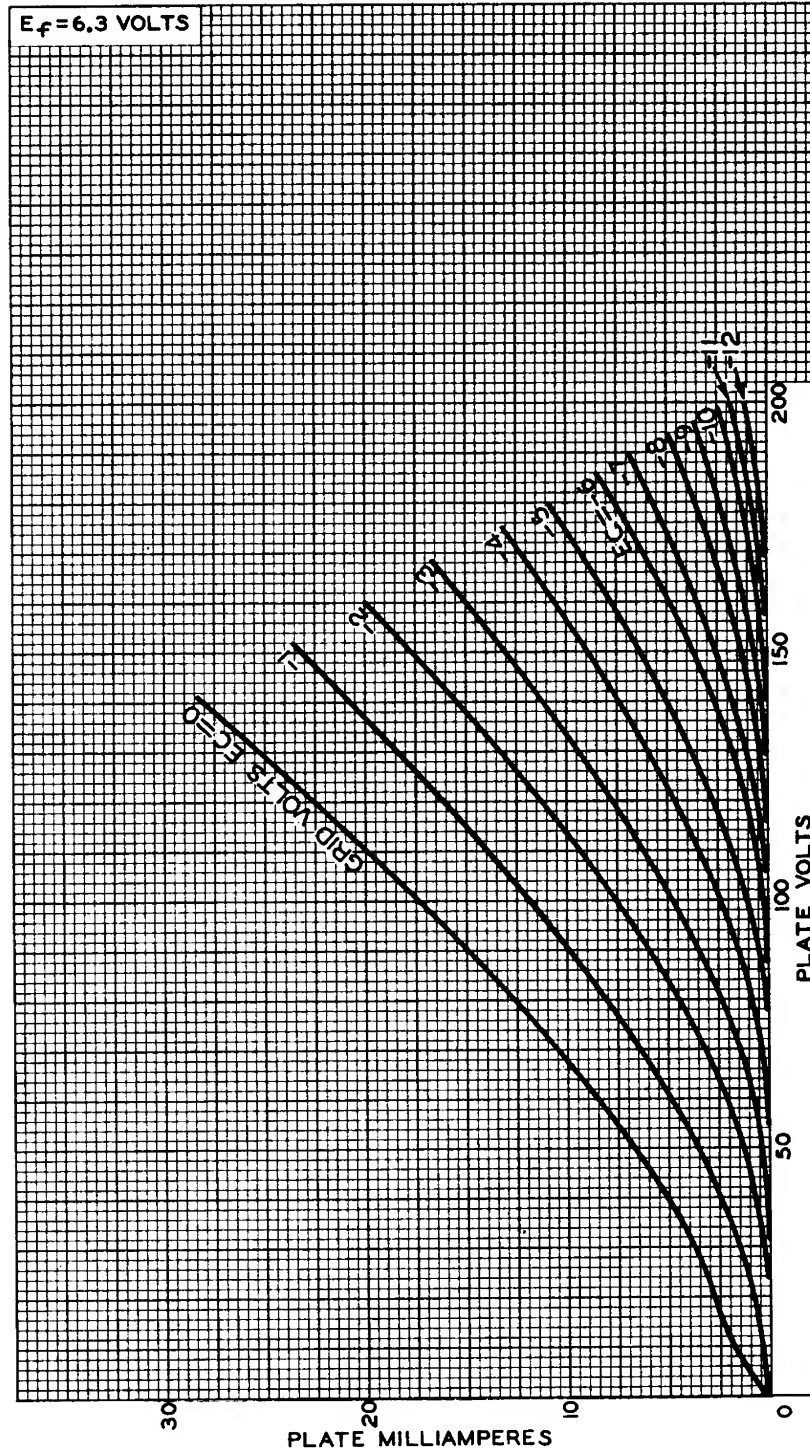
→ Indicates a change.



6CU8

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

6CU8

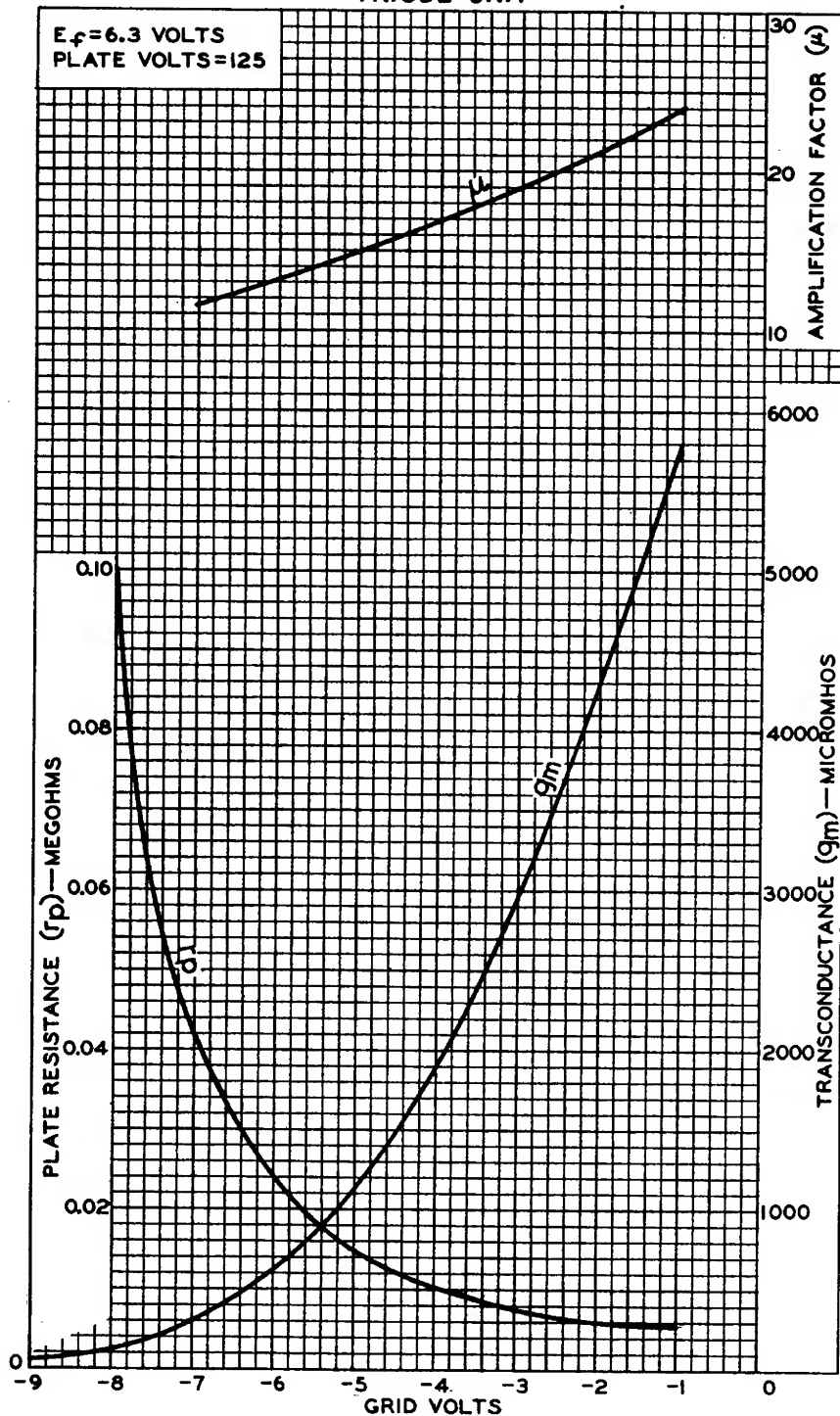


6CU8



6CU8

AVERAGE CHARACTERISTICS TRIODE UNIT

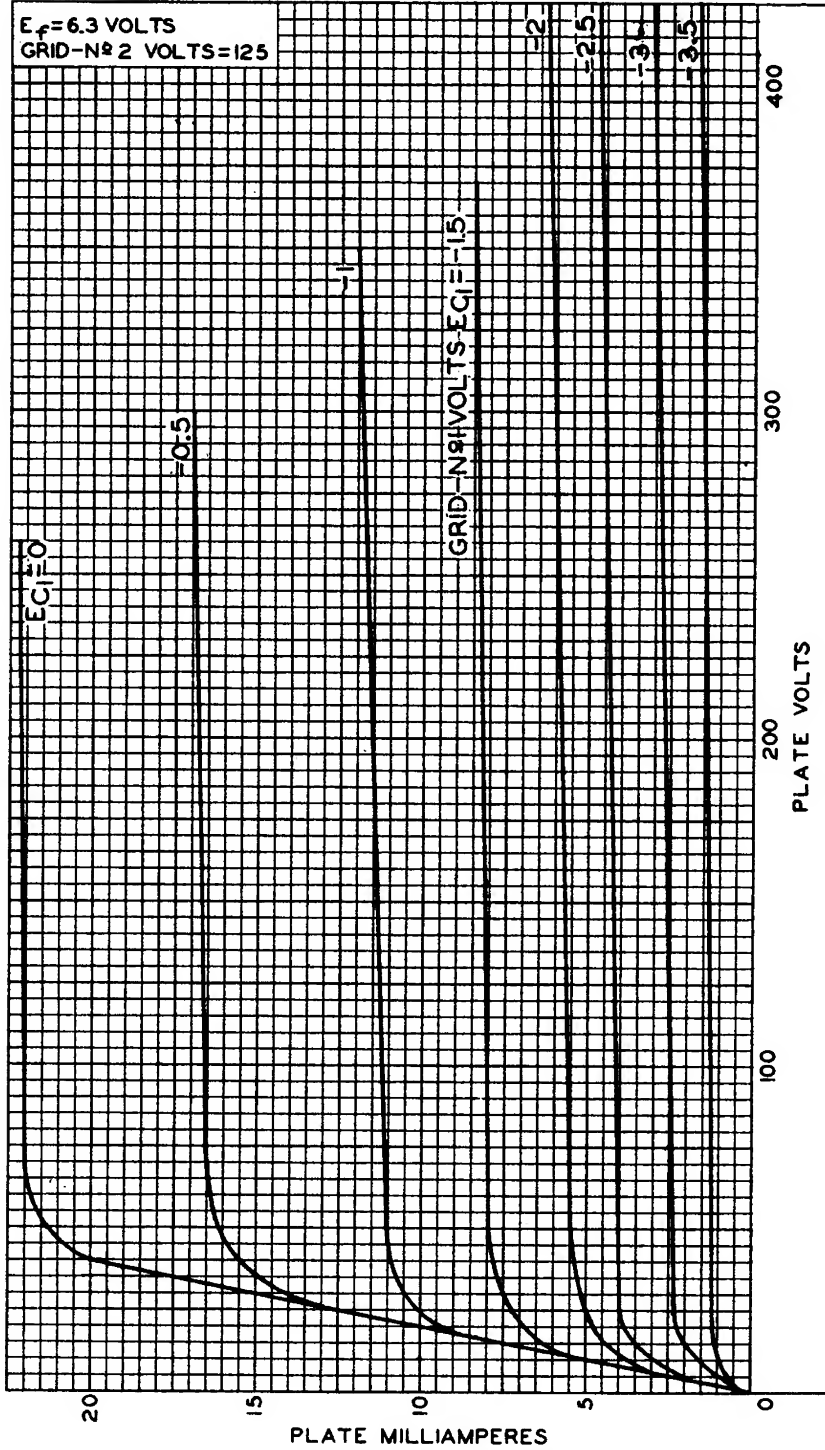




6CU8

6CU8

AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

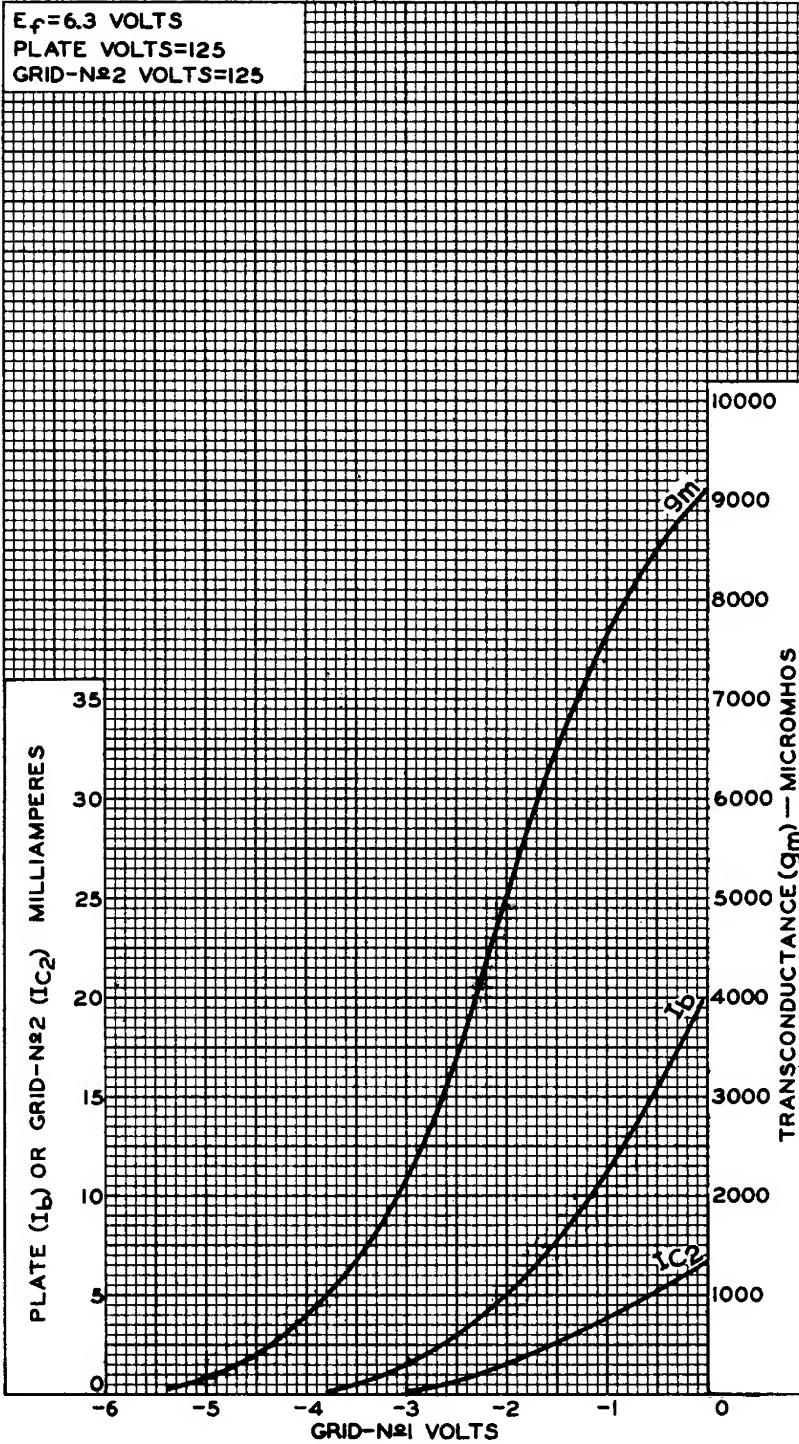
92CM-10646

6CU8



6CU8

AVERAGE CHARACTERISTICS PENTODE UNIT



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8208RI